(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 17 July 2003 (17.07.2003)

PCT

(10) International Publication Number WO 03/058367 A1

(51) International Patent Classification⁷: G05D 23/13

(21) International Application Number: PCT/GB03/00043

(22) International Filing Date: 8 January 2003 (08.01.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 0200521.3 11 January 2002 (11.01.2002) GB 0211374.4 17 May 2002 (17.05.2002) GB

(71) Applicant (for all designated States except US): VALQUEST LIMITED [GB/GB]; Oak Ashes Barn, Bowes Hill, Rowlands Castle, Hapmshire PO9 6BS (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): SWADLING, Jeremy, Philip [GB/GB]; Oak Ashes Barn, Bowes Hill, Rowlands Castle, Hampshire PO9 6BS (GB).

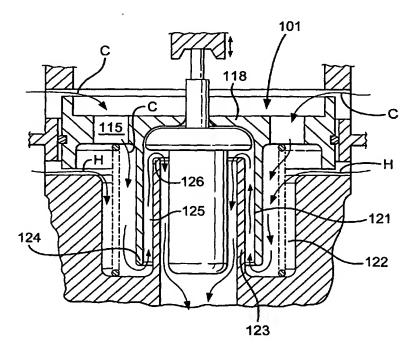
- (74) Agent: BROOKS, Nigel; Hill Hampton, East Meon, Petersfield, Hampshire GU32 1QN (GB).
- (81) Designated States (national): AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GD, GE, GH, GM, HR, HU, ID, IL, IN, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: FLOW MIXER SHUTTLE



(57) Abstract: A flow mixer shuttle (101) having first and second annular rims (11,12) for controlling the flow of hot and cold water, a central hub (118) connected to the rims, a seat on the hub for supporting a thermostatic capsule for controlling the position of the shuttle (101) to control the flow of hot and cold water, and a flow directing sleeve (121) for directing mixer flow to the flange end of the capsule. A flow mixer incorporating the shuttle is also described, as is a single control flow mixer.



O 03/058367 A1